Appendix A Public Notification that a potential event was occurring (40 CFR §50.14(c)(1))

FIGURE A-1 NATIONAL WEATHER SERVICE PUBLIC ZONES



Fig A-1: Illustrates the public zones serviced by the National Weather Service Office in Phoenix and San Diego. Imperial County, including southeast sections of Riverside County are part of the reporting public zone areas from the Phoenix office

FIGURE A-2 AREA FORECAST DISCUSSION – WEATHER DISTURBANCE APPROACHES

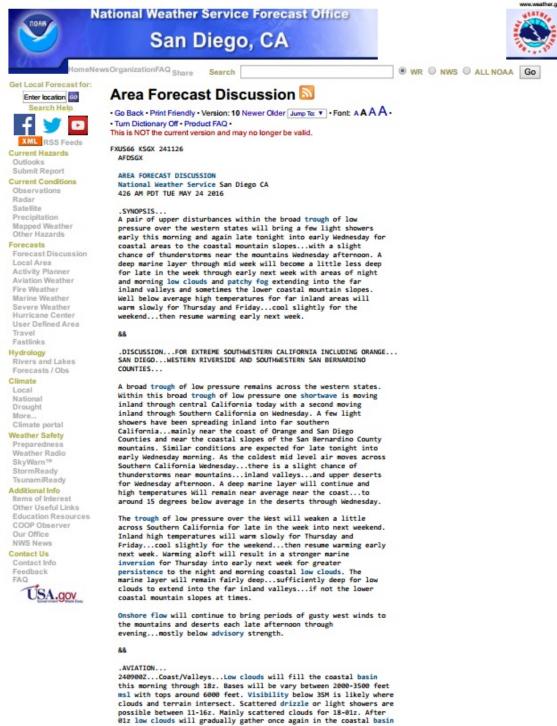


Fig. A-2: An Area Forecast Discussion issued on May 24 at 4:26 a.m. forecasted a broad low pressure trough over the western states. This weather disturbance was to bring gusty winds to southeast California. Source: NWS San Diego office.

FIGURE A-3 AREA FORECAST DISCUSSION – HIGH WINDS EXPECTED



Fig. A-3: An Area Forecast Discussion issued on May 24 at 2:36 p.m. forecasted that the upper level low would move over the region, creating gusty winds at the surface on May 24 and May 25. The strongest winds were expected May 25. Source: NWS San Diego office.

FIGURE A-4 HIGH WINDS FORECASTED FOR IMPERIAL COUNTY

CAZ033-252300-

IMPERIAL COUNTYINCLUDING THE CITIES OF...BRAWLEY...CALEXICO...EL CENTRO...GLAMIS... IMPERIAL...THE SALTON SEA

821 AM PDT WED MAY 25 2016

.TODAY...SUNNY AND WINDY. HIGHS 77 TO 82. WEST WIND 15 TO 25 MPH.

GUSTS UP TO 35 MPH.

- .TONIGHT...CLEAR AND WINDY. LOWS 50 TO 60. WEST WIND 15 TO 25 MPH. GUSTS UP TO 35 MPH IN THE EVENING.
- .THURSDAY...SUNNY AND WARMER. HIGHS 84 TO 89. WEST WIND 5 TO 15 MPH.
- .THURSDAY NIGHT...CLEAR. NOT AS COOL. LOWS 56 TO 66. WEST WIND 5 TO 15 MPH.
- .FRIDAY...SUNNY. HIGHS 88 TO 93. SOUTHWEST WIND 5 TO 15 MPH.
- .FRIDAY NIGHT...CLEAR. LOWS IN THE UPPER 50S TO UPPER 60S.
- .SATURDAY...MOSTLY SUNNY. HIGHS IN THE UPPER 80S TO LOWER 90S.
- .SATURDAY NIGHT...CLEAR. LOWS IN THE UPPER 50S TO UPPER 60S.
- .SUNDAY...SUNNY. HIGHS IN THE UPPER 80S TO MID 90S.
- .SUNDAY NIGHT...CLEAR. LOWS IN THE UPPER 50S TO UPPER 60S.
- .MEMORIAL DAY...SUNNY. HIGHS IN THE LOWER TO MID 90S.
- .MONDAY NIGHT...CLEAR. LOWS IN THE UPPER 50S TO UPPER 60S.
- .TUESDAY...SUNNY. HIGHS IN THE MID TO UPPER 90S.

Fig. A-4: Winds of 15 to 25 mph with gusts reaching 35 mph were forecasted for May 25. Winds and gusts were actually much higher.

https://mesonet.agron.iastate.edu/wx/afos/p.php?pil=ZFPPSR&e=201605251520.

FIGURE A-5 WIND ADVISORY FOR SAN DIEGO COUNTY DESERTS

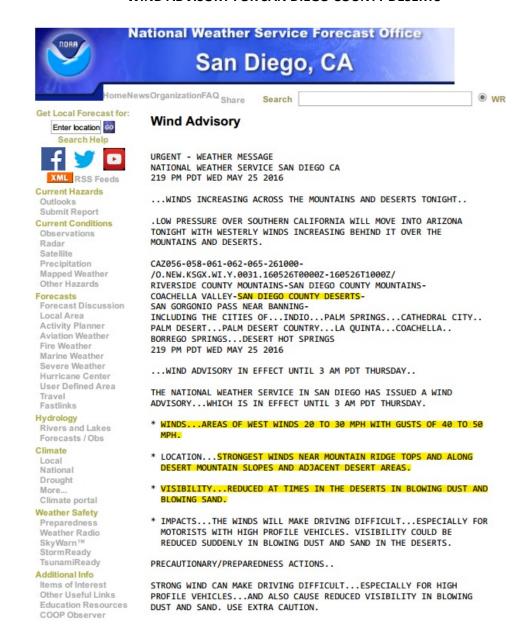


Fig. A-5: A Wind Advisory that included the San Diego deserts was issued on May 25 at 2:19 p.m.. This area was upstream of Imperial County during the wind event. Source: NWS San Diego office.

Additional Info

Our Office

NWS News

Contact Info Feedback

Contact Us

FAO

Items of Interest

COOP Observer

Four Peaks Post

USA.gov

Other Useful Links Education Resources

AREA FORECAST DISCUSSION – HIGH WINDS EXPECTED National Weather Service Forecast Office Phoenix, AZ HomeNewsOrganizationFAQ Share WR Get Local Forecast for: Area Forecast Discussion Enter location Go Go Back • Print Friendly • Version: 15 Newer Older Jump To: ▼ • Font: AAAA. Turn Dictionary Off • Product FAQ • This is NOT the current version and may no longer be valid. FXUS65 KPSR 242136 **Current Hazards** AFDPSR Outlooks Submit Report Area Forecast Discussion Local Storm Reports National Weather Service Phoenix AZ **Current Conditions** 236 PM MST TUE MAY 24 2016 Observations Radar .UPDATE...UPDATED FIRE WEATHER DISCUSSION. Satellite Precipitation .SYNOPSIS.. Rainfall Reports A large region of low pressure will continue over the Western States NOAA Weather Radio through the weekend bringing overall cooler than normal temperatures Forecasts and dry conditions. A more compact low pressure system will move through Wednesday bringing gusty winds to much of the area. Building high pressure for next week will likely bring a warming trend pushing highs to near 100 degrees for the lower deserts by the middle of Forecast Discussion Local Area Activity Planner Aviation Weather next week. Fire Weather Severe Weather Hurricane Center **User Defined Area** Travel Early afternoon water vapor imagery shows the slow moving upper level Air Quality low over the Western United States with the main low circulation just GIS off the central California coast. Dry southwesterly flow and clear Hydrology skies continue to affect the Desert Southwest as the upper low nears Rivers and Lakes the region. Pressure packing has increased since yesterday resulting CBRFC in some breeziness across the region, but the strongest pressure gradients and winds will affect the region Wednesday. The main low Climate circulation is forecast to dive southward tonight before making a sharp turn to the east through southeast California during the Local National daytime hours Wednesday. Strong height falls and the increased pressure gradient will increase winds Wednesday with some gusts Drought More... approaching 35 mph. Can't rule out some patchy blowing dust, but not Climate portal expecting any widespread impacts. Weather Safety Preparedness Despite strong UVV associated with this compact low circulation, Weather Radio the dry nature of this system (PWATS less than a half an inch) SkyWarn™ should only allow for a slight chance of a stray shower/thunderstorm Heat Safety across JTNP Wednesday afternoon/evening. Temperatures will take a Monsoon Safety slight dip across our western zones on Wednesday and then over

FIGURE A-6

Fig. A-6: An Area Forecast Discussion issued on May 24 at 2:36 p.m. forecasted that the upper level low would bring a stronger pressure gradient resulting in gusty winds and blowing dust. Source: NWS San Diego office.

degrees across the deserts.

south-central Arizona on Thursday, but for the most part highs should

northwesterly flow aloft will take over through the weekend. Upper

temperatures will remain below climatological normals. Though model

warming trend for the beginning of June and highs again topping 100

ensemble spread increases for the early to middle of next week, there

level heights will remain fairly stable through this period and

are indications a Pacific ridge will build off the West Coast displacing the large scale troughing pattern into the middle part of

the country. This potential pattern change would likely bring a

mostly top out in the middle to upper 80s through Thursday.

Once the upper low exits the region later Thursday, weaker

FIGURE A-7 AIR QUALITY FORECAST FOR BLOWING DUST – MAY 24

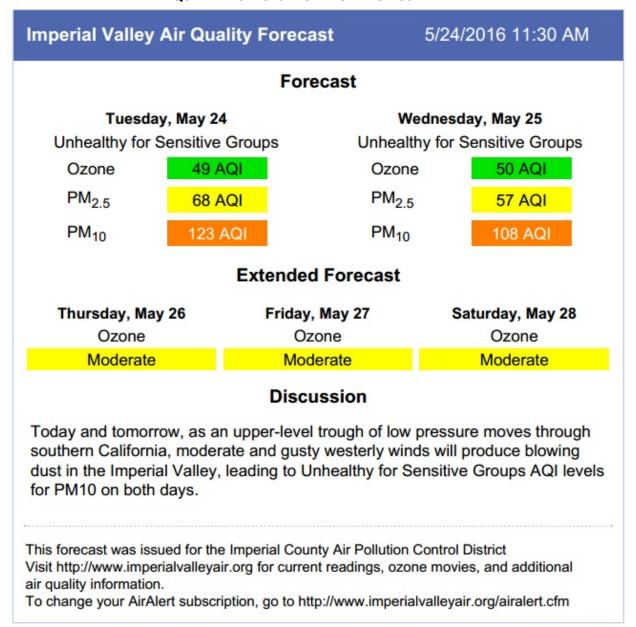


Fig. A-7: The ICAPCD posted this advisory-forecast on its website on May 24 advising the public of an upper-level trough approaching the area that would create gusty winds and blowing dust on both May 24 and May 25. Source: ICAPCD Archives.

FIGURE A-8 WIND ADVISORY FOR THE DESERTS SLOPES

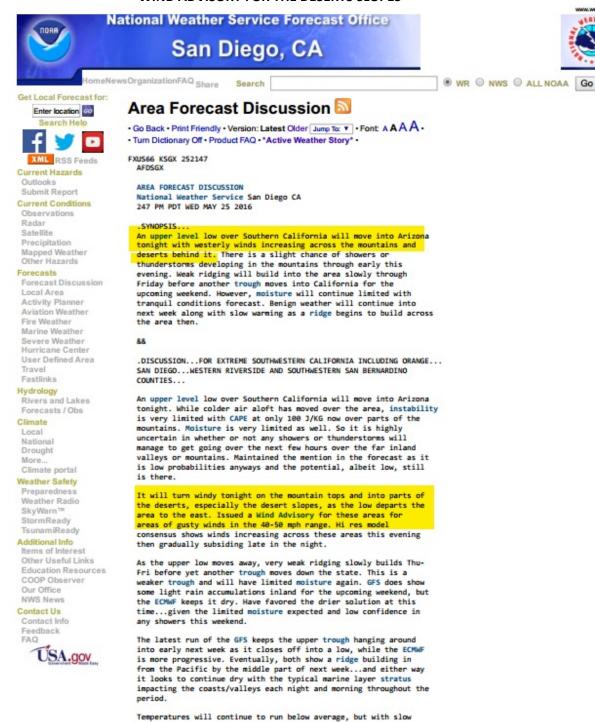


Fig. A-8: An Area Forecast Discussion issued at 2:47 p.m. on May 25 reiterated the Wind Advisory for the mountain desert slopes upstream of Imperial County. Source: NWS San Diego office.

warming away from the coast. /Gregoria

FIGURE A-9
STRONG GUSTY WINDS EXPECTED ACROSS THE MOUNTAINS AND DESERTS



Fig. A-9: A Weather Story issued by the NWS forecasted strong gusty winds over a wide area ranging from portions of Riverside County to southeastern San Diego County, and the Anza Borrego desert area. The desert areas were upstream of Brawley during the May 25, 2016 wind event. Source: NWS San Diego office.

FIGURE A-10 ELEVATED DUST OVER SOUTHEAST CALIFORNIA

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0400Z May 26, 2016

Southwest and Central US/North and Northwest Mexico:

An extensive area of elevated dust could be seen stretching inland from the East Pacific across Baja, the Gulf of California, northwest Mexico, southeast California, Arizona, western New Mexico, southeast Utah, and Colorado. Some hint of the aerosol could even be seen stretched further northeast from Colorado across northwest Kansas, Nebraska, South Dakota, North Dakota, and Minnesota. While the majority of this dust has Asian origins, it is likely that some additional southwest US/northwest Mexico dust is being elevated as well. Additionally, a separate area of blowing sand/dust could be seen just west of El Paso, TX moving east-northeast across far western Texas. Some very light dust may be present downstream from this blowing dust event across the Texas Panhandle.

Fig. A-10: NOAA's Satellite Service Division Smoke Text Product identified elevated dust that in part was likely originating in the southwest United States and southeast California. This notice was effective up through 0400Z May 26 / 2000 PST May 25, which would fit the time frame of the wind event.

Source: http://www.ssd.noaa.gov/PS/FIRE/DATA/SMOKE/2016/2016E260411.html.

FIGURE A-11 IMPERIAL COUNTY ISSUED NO BURN DAY

			ay 25 2016 Observations at Imper	ial Airport (ASO	S) FAA/N	WS			
	LOCAL TIME	TEMP °F	WINDS MILES PER HOUR	VISIBILITY MILES					
+	7 AM	64	W-23G30	10					
-	8 AM	67	W-23	10					
-	9 AM	71	W-21G26	10					
	10 AM	74	W-18G28	10					
	11 AM 76 NOON 79		W-15	10					
			WNW-9	10					
	1 PM	82	W-12G17	10					
	2 PM	83	SW-14G21	10					
	3 PM	86	WSW-20G25	10					
	4 PM	84	W-20G26	10					
	5 PM	82	W-18G31	10					
	6 PM	79	W-21	10					
	7 PM	76	W-24G30	10					
	Max. Temperature yesterday was 86 degrees								
7	oday's Mt.	Signal Vis	ibility at 7:30 AM YE	S NKX 12Z 50	0 MB He	ight _			
F	orecasts	5		1Y7 12Z 50	0 MB Hei	ght _		-	
	High To	day	77-82	Local Fo	orecast AM Local		Computer Forecas (RUC 40KM 12Z)		
-	et Time M	livina Heial	ht reaches 3000 feet	N/A	A		9:00 AM		
		-	Mixing Height	N/A		feet		feet	
			surface winds	W 15	-25	mph	W 15-25	mph	
			surface winds	W 15	-25	mph	W 15-25	mph	
F	orecast for	evening s	urface winds	W 15		mph			
F	orecast 10	AM - 3 PN	A transport winds	W 15	-25	mph			
			Susts up to 35 mph.						

Fig. A-11: Is a copy of the Imperial County Air Pollution Control District official record of the conditions as they existed for a determination of a "No Burn" day on May 25, 2016.

FIGURE A-12 AIR QUALITY ALERT – UNHEALTHY FOR SENSITIVE GROUPS

Imperial Valley Air Quality Alert

Westmorland - 570 Cook St

Wednesday, May 25 - 4:00 AM

PM10 (24-hr average) AQI reached 102 - Unhealthy for Sensitive Groups

PM10 AQI 101-150 People with respiratory or heart disease, the elderly, and children are the groups most at risk, especially when they are physically active. There is an increased likelihood of respiratory symptoms in sensitive individuals, and aggravation of heart or lung disease and premature mortality in persons with cardiopulmonary disease and the elderly. U.S. EPA cautions that "people with heart or lung disease, older adults, and children should reduce prolonged or heavy exertion." 'Prolonged' generally means four or more hours with short rest periods. 'Heavy exertion' is that which would increase the resting breathing rate four fold or greater. You can reduce exposure to particulate material by: - Reducing the intensity and duration of your outdoor activities - Postponing outdoor activities to days when particulate levels are lower

Current Maximum AQI for Other Imperial Valley Cities

Brawley - 220 Main Street: Moderate (PM10)

Calexico - Ethel Street: Moderate (PM10)

El Centro - 9th Street: Good (PM10)

Niland - English Road: Moderate (PM10)

Fig. A-12: An Air Quality Alert was issued at 4:00 a.m. on May 25 advising the public that air quality in the Westmorland area had reached Unhealthy for Sensitive Groups. Although Westmorland had high concentrations for the day, it did not exceed like Brawley. However, the station did have a much higher surge in concentrations than Brawley during the early morning hours of May 25. Source: ICAPCD Archives.

FIGURE A-13 AIR QUALITY ALERT – UNHEALTHY FOR SENSITIVE GROUPS

Imperial Valley Air Quality Alert

Brawley - 220 Main Street

Thursday, May 26 - 1:00 AM

PM10 (24-hr average) AQI reached 106 - Unhealthy for Sensitive Groups

PM10 AQI 101-150 People with respiratory or heart disease, the elderly, and children are the groups most at risk, especially when they are physically active. There is an increased likelihood of respiratory symptoms in sensitive individuals, and aggravation of heart or lung disease and premature mortality in persons with cardiopulmonary disease and the elderly. U.S. EPA cautions that "people with heart or lung disease, older adults, and children should reduce prolonged or heavy exertion." 'Prolonged' generally means four or more hours with short rest periods. 'Heavy exertion' is that which would increase the resting breathing rate four fold or greater. You can reduce exposure to particulate material by: - Reducing the intensity and duration of your outdoor activities - Postponing outdoor activities to days when particulate levels are lower

Current Maximum AQI for Other Imperial Valley Cities

Calexico - Ethel Street: Good (PM2.5)

Niland - English Road: Moderate (PM10)

Westmorland - 570 Cook St: Moderate (PM10)

This notification was issued by the Imperial Valley Air Pollution Control District

Fig. A-13: So much dust was stirred up on May 25 that the effects carried over into May 26. As a result the ICAPCD issued an air quality alert on its website at 1:00 a.m. on May 26, 2016, informing the public that air quality had entered the Unhealthy for Sensitive Groups range.

FIGURE A-14 AIR QUALITY INDEX

Air Quality Index Levels of Health Concern	Numerical Value	Meaning	
Good	0 to 50	Air quality is considered satisfactory, and air pollution poses little or no risk.	
Moderate	51 to 100	Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.	
Unhealthy for Sensitive Groups	101 to 150	Members of sensitive groups may experience health effects. The general public is not likely to be affected.	
Unhealthy	151 to 200	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.	
Very Unhealthy	201 to 300	Health alert: everyone may experience more serious health effects.	
Hazardous	301 to 500	Health warnings of emergency conditions. The entire population is more likely to be affected.	

Fig. A-14: The Air Quality Index The AQI is an index for reporting daily air quality. It tells you how clean or polluted your air is, and what associated health effects might be a concern for you. The AQI focuses on health effects you may experience within a few hours or days after breathing polluted air. EPA calculates the AQI for five major air pollutants regulated by the Clean Air Act: ground-level ozone, particle pollution (also known as particulate matter), carbon monoxide, sulfur dioxide, and nitrogen dioxide. For each of these pollutants, EPA has established national air quality standards to protect public health .Ground-level ozone and airborne particles are the two pollutants that pose the greatest threat to human health this country. Source: https://airnow.gov/index.cfm?action=aqibasics.aqi.

FIGURE A-15 IMPERIAL COUNTY AFFIDAVIT OF 30 DAY PUBLIC NOTICE

AFFIDAVIT OF PUBLICATION (2015.5 C.C.P.)

STATE OF CALIFORNIA

County of Imperial

I am a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above entitled matter. I am the principal clerk* of the printer of the

Imperial Valley Press

a newspaper of general circulation, printed and published daily in the City of El Centro, County of Imperial and which newspaper has been adjudged a newspaper of genera circulation by the Superior Court of the County of Imperial, State of California, under the date of October 9, 1951, Case Number 26775; that the notice, of which the annexed is a printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

SIGNATURE

Name of Account: I C AIR POLLUTION

CONTROL

Order Number: 11143574 Ad Number: 31364715

* Printer, Foreman of the Printer, or Principal Clerk of the Printer

Date: 31 st day of January, 2018. at El Centro, California.

This space is for the County Clerk's Filling Stamp:

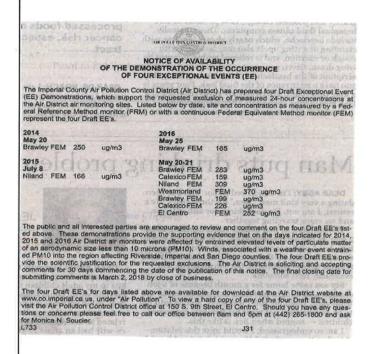




Fig A-15: Is a copy of the Imperial County Air Pollution Control District official record (affidavit) affirming the publication of the notice of availability of the Exceptional Events Demonstration for May 25, 2016. The date for closing comments was March 2, 2018

FIGURE A-16 IMPERIAL COUNTY COMMENTS REGARDING THE MAY 20, 2016 AND MAY 21, 2016 EE DEMONSTRATIONS

The ICAPCD received no comment